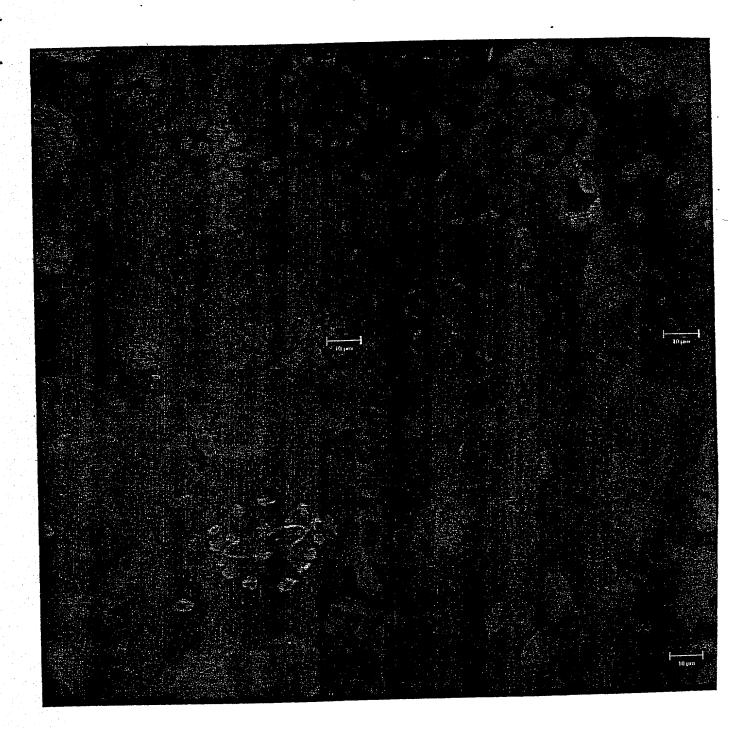
Figure 1

| 1 |  |                     |             |              |                     |            |            |
|---|--|---------------------|-------------|--------------|---------------------|------------|------------|
|   | MASLRLFSTN   | HQSLLLPSSL          | SQKTLISSPR  | FVNNPSRRSP   | IRSVLQFNRK          | PELAGETPRI | 60         |
|   |  | • • • • • • • • • • |             |              | MVFSTGNGNG          | DDNSKGLERV | 20         |
| 1 |  |                     |             |              | •••••               | MNRI       | 4          |
| 1 |  |                     |             |              | • • • • • • • • • • | MARI       | 4          |
| Ì |  |                     |             |              |                     |            |            |
|   |  |                     |             |              |                     |            |            |
|   | <b>VVITSGKGGV</b>  | GKTTTTANVG          | LSLARYGFSV  | VAIDADLGLR   | NLDLLLGLEN          | RVNYTCVEVI | 120        |
|   | IVITSGKGGV   | GKTTTTANLG          | MSIARLGYRV  | ALIDADIGLR   | NLDLLLGLEN          | RVLYTAMDIV | 80         |
| 1 | IVVTSGKGGV   | GKTTTTANLG          | AALARLGKKV  | VLIDADFGLR   | NLDLLLGLEQ          | RIVYTAIDVL | 64         |
| 1 | IVVTSGKGGV   | GKTTSSAAIA          | TGLAQKGKKT  | VVIDFDIGLR   | NLDLIMGERR          | RVVYDFVNVI | 64         |
| Ì | ****   | ***                 | •           |              |                     |            |            |
| 1 | The second secon |                     |             |              |                     |            |            |
|   |  |                     |             |              |                     |            |            |
| 1 |  |                     |             |              | EWLVDALKRT          |            |            |
| ١ | EGQCRIDQAL   | IRDKRWKNLA          | LLAISKNRQK  | YNVTTKNM     | QNLIDSVK            | .ELGFQFVLI | 135        |
|   |  |                     |             |              | LVEQLK              |            |            |
|   | QGDATLNQAL   | IKDKRTENLY          | ILPASQTRDK  | DADLTREGVA   | .KVLDDLK            | .AMDFEFIVC | 120        |
|   |  |                     |             | •            |                     |            |            |
|   |  | •                   | •           |              |                     |            |            |
|   |  |                     |             | LRDADRVTGL   |                     |            | 232        |
|   |  |                     |             | IRDADRVAGL   |                     |            | 187        |
| ١ |  |                     |             | VRDADRVIGL   |                     |            | 168        |
| ١ | DSPAGIETGF   | ALMALYFADE          | AIITTPEVSS  | VRDSDRILGI   | LASKSRRAEN          | GEEPIKEH   | 178        |
| I |  |                     | •           | ·            |                     |            |            |
| 1 |  | •                   |             |              |                     |            |            |
| l |  |                     | <del></del> |              | IRSTNRGFPL          |            | 292        |
| 1 |  |                     |             |              | IISTNKGEPL          |            | 247        |
| ١ |  |                     |             |              | IISTNKGEPL          |            | 228        |
| İ | LLLTRYNPGR   | VSRGDMLSME          | DVLEILTIKL  | VGVIPEDQSV   | LRASNQGEPV          | ILDINA.DAG | 237        |
| I |  |                     | •           |              |                     |            |            |
| I |  |                     | /           | TT 4         | 5 1 ·               | 3          | 220        |
| ۱ |  | .VEQDSMKAV          |             |              |                     | dopsis     | 328<br>286 |
| ۱ | IAFENAARRL   |                     |             | .LQE.FFLGEE  |                     |            | 286        |
|   | LAFQNIARRL   |                     |             |              | -                   |            | 200<br>271 |
| ١ | KAYADTVEKL   | LGEERPFR            | ETEEE.KK.G  | . Planklibes | E. co.              | 12         | 211        |
| 1 |  |                     |             |              |                     |            |            |

Figure 2



D

Figure 3

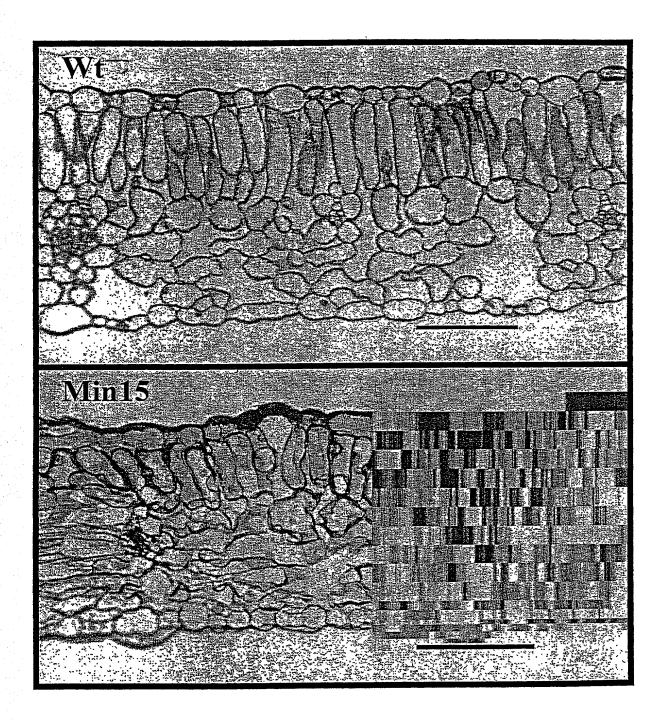
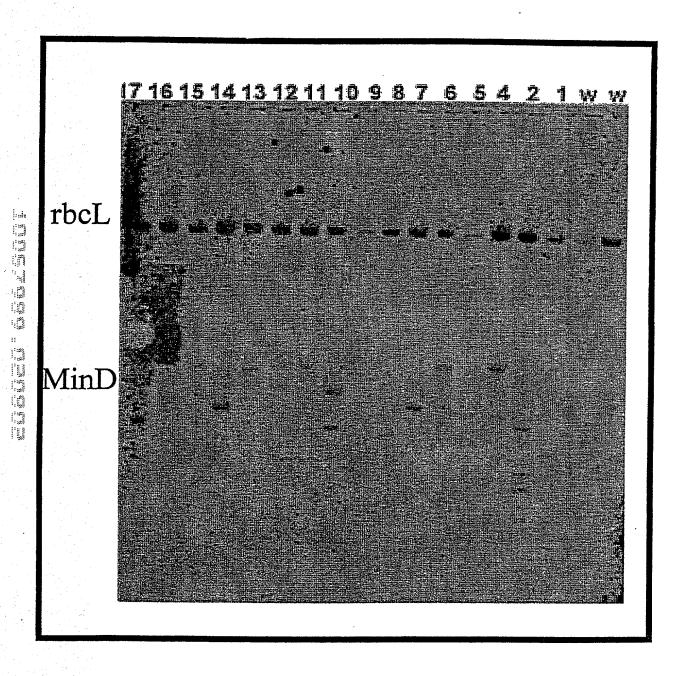
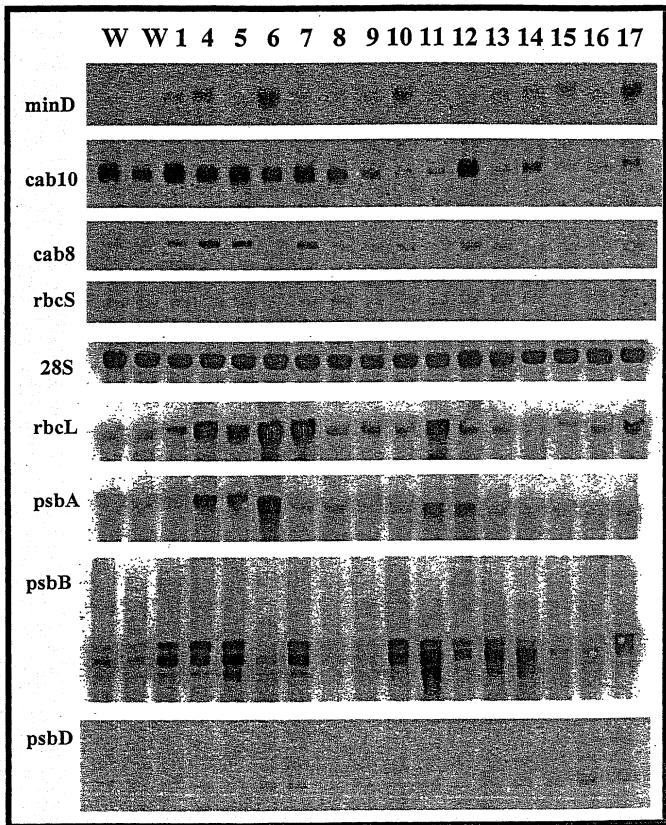


Figure 4



Figure 5





|          | Chlorophyll Content  |                   | Fluorescence Measurements |                        |                           |  |
|----------|----------------------|-------------------|---------------------------|------------------------|---------------------------|--|
| Line     | Total Chl<br>(ug/mg) | Chla/b<br>(ratio) | Fo<br>(relative units)    | Fm<br>(relative units) | Fv/Fm<br>(relative units) |  |
| wr       | 1.99                 | 3.11              | 137.4±12.0                | 616.6±34.0             | 0.777±0.015               |  |
| AtMin4   | 1.71                 | 2.64              | 135.7±11.8                | 636.2±27.1             | 0.787±0.013               |  |
| AtMin5   | 1.58                 | 3.01              | 136.5±17.1                | 534.9±66.1             | 0.757±0.020               |  |
| AtMin 8  | 1.46                 | 3.07              | 128,5±32,3                | 489.9±78.6             | 0.741±0.037               |  |
| AtMin 9  | 1.66                 | 3.00              | 125.5±19.9                | 520.5±58.3             | 0.759±0.018               |  |
| AtMin 10 | 1.53                 | 2.95              | 136.5±11.3                | 543.1±14.3             | 0.748±0.025               |  |
| AtMin 17 | 1.44                 | 2.71              | 139.5±20.6                | 564.9±32.7             | 0.756±0.032               |  |
| wt ·     | 1.69                 | 3.08              | 105.6±14.9                | 441.9±58.5             | 0.760±0.016               |  |
| AtMin 1  | 1.74                 | 2.80              | 126.4±08.6                | 436.7±27.2             | 0.714±0.035               |  |
| AtMin 12 | 1.60                 | 3.11              | 123.4±16.6                | 455.3±84.4             | 0.724±0.040               |  |
| AtMin 13 | 1.91                 | 3.28              | 115.9±17.9                | 441.5±64.5             | 0.737±0.011               |  |
| AtMin 14 | 1.59                 | 3.07              | 113.6±17.2                | 444.1±58.2             | 0.743±0.017               |  |
| AtMin 15 | 1.59                 | 2.94              | 119.1±19.5                | 433.0±45.9             | 0.724±0.037               |  |
| AtMin 16 | 1.71                 | 2.89              | 122.1±10.7                | 447.7±41.0             | 0.725±0.019               |  |

The measurements were taken over two days, and due to variation in the  $F_0$  and  $F_M$  measurements these were kept separate. Fluorescence measurements are averaged from eight samples.

## Figure 8

| (2:00)  |     | •  |          |    |
|---------|-----|--|----------|----|
| 1       |     |  |          |    |
| Syne    | 1   | ·  | Ð        | ,  |
| Guill   | ī   |  | ð        | -  |
| Écoli   | ī   |  | a        | i  |
| Pseudo  | 1   | •  | Ó        | f  |
| Neiss   | 3   |  | ย์       | ŀ  |
| Chlorel | ī   | <u>matlloog</u> tfaphrswsgrkgtrzyskftldrlhvrsssragagfú   | SD 4     | 8  |
| AtMinE  | ī   | manssgtlrisatlyspyhhhhrnelslps;sservdftgfisngvmsletqkctpglaisrentrgqykvlarnt   |          | 7  |
|         |     | ,  |          |    |
| Syne    | 1   | Milzelerefersgenscedere  | E 4      | 8  |
| Guill   | 1   | mitreferefishkgsredűsr <mark>el</mark> kűvőnűcestlkastlekűre   | 12 TE    | 7  |
| Ecoli   | 1   | makldf <del>f</del> lsrkentani <i>r</i> eelcetyree-rsd-aephylpoere   | DE 4     | 6  |
| Pseudo  | 1   | MSTLDTTRSRKSCNSASITER_CTTVHEETCOR-AOPDYLFOTOK  | DE 4     | 7  |
| Neiss   | 1   | MSHIBLEFORKQKTATVÄHCELQILÄHGE AQEEQCPD911PTERK   |          | 7  |
| Chlorel | 49  | ahlahLrnaghpypeapglogfyaklkamnolyfpekppyltpkdesniklrallage-cgitpdsltgere   | SI I     | 22 |
| AtMinE  | 80  | yslspspaeqelesflynainmgffdrlulawrigfpshasbrssnarlaggaefild-sdearrkyn   | NE 1     | 54 |
|         |     | Weimsry Beid-pgenesslesd-orntäl innipärryrrtkakseaqes  | 97       |    |
| Syne    | 49  |  | 88       |    |
| Guill   | 48  |  | 88       |    |
| Ecoli   | 47  | A STATE OF THE PARTY OF THE PAR | 24<br>24 |    |
| Pseudo  | 43  | The state of the s | 87       |    |
| Neiss   | 48  | Market and the second of the s | 198      |    |
| Chlorel | 123 | The state of the s |          |    |
| AtMins  | 157 | The solution of the control of the c | 229      |    |

Figure 9

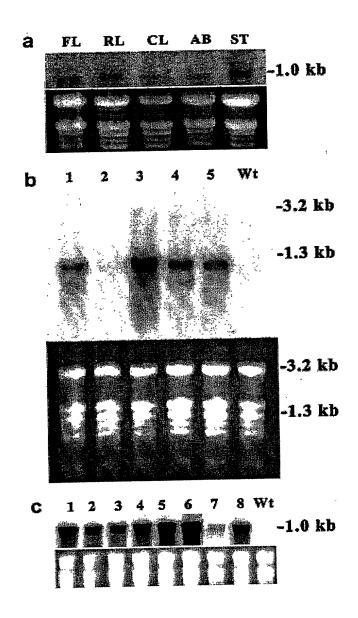


Figure 10

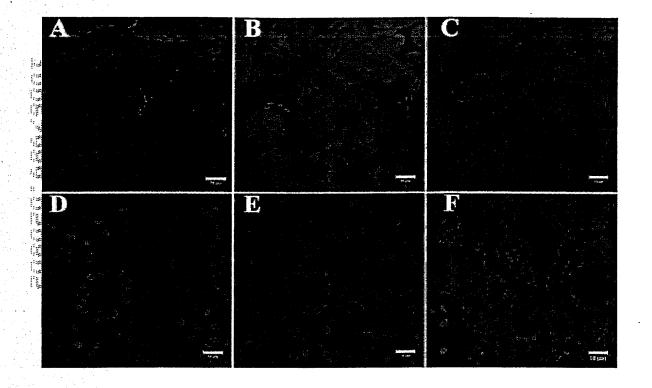


Figure 11

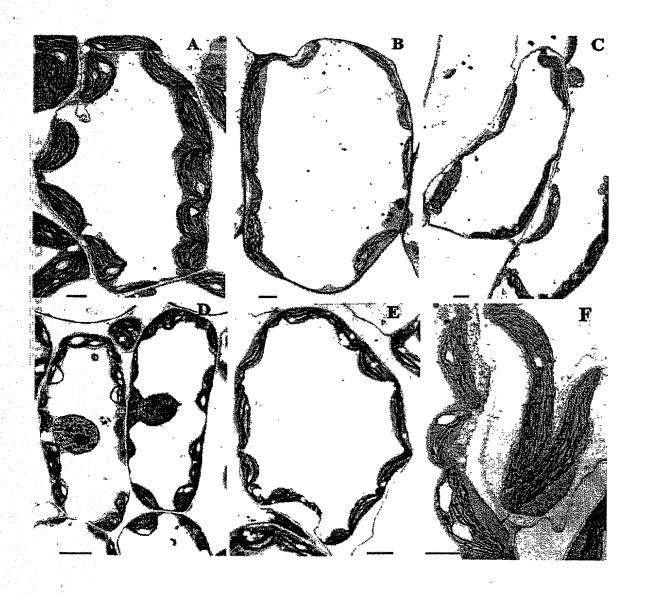


Figure 12

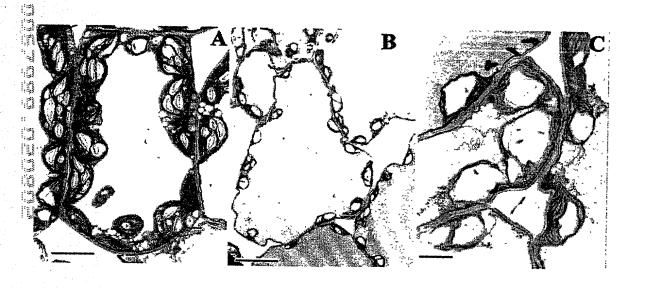


Figure 13

